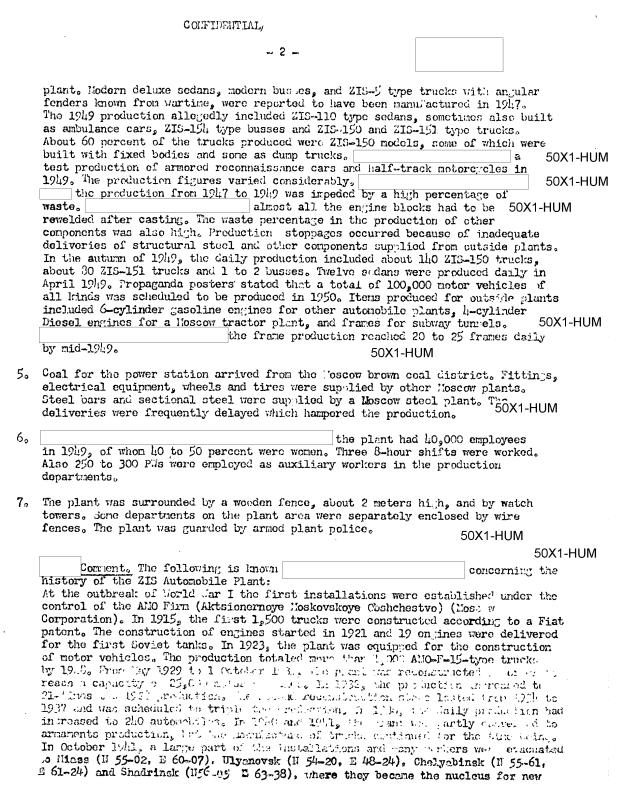
	CENTRAL INTELLIGEN	OL MOLINO	REPORT	
	INFORMATION	REPORT	CD NO.	50X1-HUM
COUNTRY	USER (Moscow Oblast)		DATE DISTR.	6 October 1953
SUBJECT	Stalin Automobile Plant in Moscow	•	NO. OF PAGES	i.l.
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THIS DOCUMENT OF THE UNITED AND 794, OF TO AFTON OF 1TS IS PRODUCTED	CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE STATES, UTHING THE BEARING OF SITTLE 18, SECTIONS 708 IE U. S. CODE, AS AMENORD. ITS TRANSCUSSION OR REVELOUNEURS TO OR ESCENTE VA HUBAUTHORIZED PERSON DE LAW THE PERFODUCTION OF THIS FORM IS PROHIBITED.	THIS IS UNEVA	LUATED INFORMATI	ON 50X1-HUM
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automobile plants. In 1942, the construction of ZIS-5 typo trucks and of the ZIS-12 type cross-country trucks was started in Moscow. At first these trucks were only assembled there. The production of automobile components was resumed in 1943. The third reconstruction stage lasted from 1946 to 1950, Luring this period, 35 percent of the machine equipment was scheduled to be modernized. The production of the new ZIS-110 sedan started in 1946. The ZIS-154 bus was turned out in 1947. The new ZIS-150 type and ZIS-151 type trucks were being produced in 1948, and the construction of the ZIS-5 model was suspended. In addition to these models, the ZIS-156 type truck which is the ZIS-150 truck operated with bottled gas (Gasflaschenbetricb), the ZIS-155 type bus and the ZIS-565 type dump truck were produced in the following years.

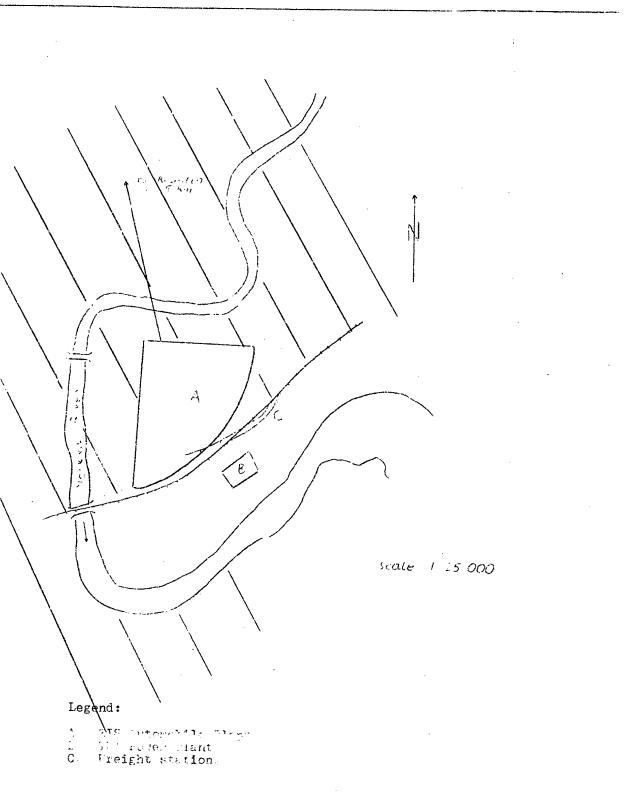
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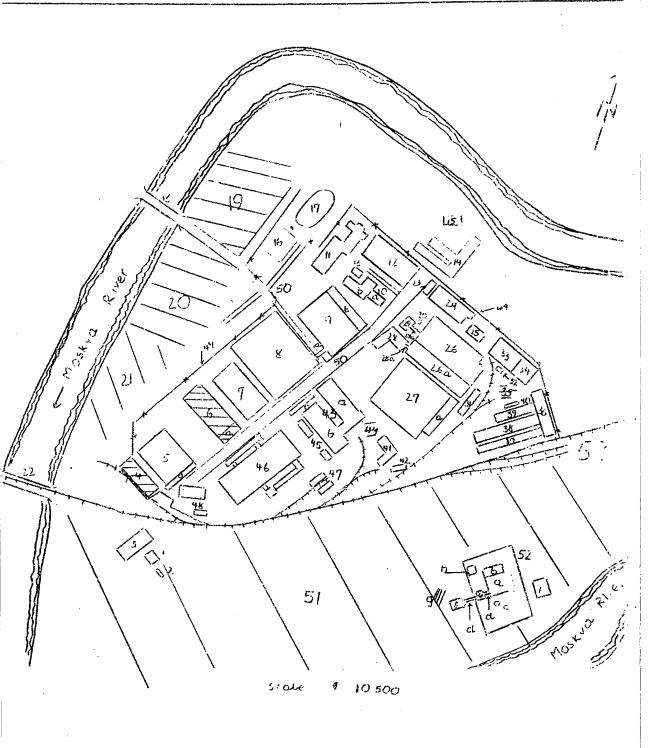
Location Sketch of the ZIE Automobile Plant in Moscow





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Layout Sketch of the ZIS Automobile Plant in Moscow



Legend: See next page.



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Legend:

- Department for household items and enameling installation. The production of this department included kitchen pots and ice skates.
- Utilizatsiya department where beds and other household items were manu_actured from metal scrape
- 3. Asphalt factory.

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- 5. Mechanical remain shop and electrical repair shop. Its equipment included several lathes, planers and fully automatic machines. Screws, rivets, bushings and other small parts were produced. Electric motors were repaired in one section.

 a. Office building.
- 6. New workshop building, the construction of which started before the war, the installation of cranes began in 1959. The workshop was scheduled to be put into operation in 1950. Its future use was not known.
 a. Office annex.
- 7. Department for the production of radiators and fittings.
- 8. Pressing shop and punching shop equipped with several electrically or hydraulically operated presses. Chassis components, car body components, fenders and jasoline tanks were produced here.
- 9. Department for the assembly of ZIS-15h busses and ZIS-110 secans, with an assembly line. A conrecting passage (a) for the delivery of components led from the pressing shop to the assembly shop.
 b. Multiple-story an ex which housed the upholstery shop, the leather shop, the spray-painting shop and offices.
- 10. a. Hospital. b. Central mess hall.
- 11. Technical school for plant employees and for training apprentices.
- 12. InstrumentalnyyTsekh (tool making shop), also called the first machine shop. All kinds of tools for plant requirements and for motor vehicles were produced here. The installation included a small forge, a machine shop equipped with many machine tools, some of which were fully automatic, and a nickel-plating shop.
- 13. Food and material warehouse for the kitchen and hospital.
- 14. Old foundry which apparently did not belong to the automobile plant.
- 15. Avto-Baza (sic) with parkin; let, repair shop and filling station.

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16. Experimental department. In 1916, foreign truck models were experimentally reproduced. Armored recommaissance cars and half-track motographics were tested

in 1949. There is said to be an entine testing stand in this department.

- 17. Athletics field.
- 18, Wooden bridge across the Moskva River, with a streetcar line over this bridge,
- 19. Residential buildings and sheds near the Moskva River.
- 20. Unloading point for building materials and storage place for stone, gravel and sand. Slag concrete stones were produced on this site.
- 21. Dump for the storage of iron parts. The steel structures for the new workshop buildings were completed on this site.
- 22. hailroad bridge. A steel structure consisting of three arches with two piers in the water.
- 23. Technical designing office and pattern-making shop, wooden and plaster patterns were made.
- 24. Foundry No 1 equipped with 3 coke-fired ovens and 2 electric furnaces. Various components such as flywheels, balls for ball bearings, large machine components, and arched girders for the Hoscow subway tun els were cast in this foundry.
- 25. Entrance check point. Guard station.
- 26. Machine and assembly shop equipped with many modern machine tools. Engine blocks and all small components for engines were processed and hardened in this shop.

 the engines were also assembled in this shop, but they 50X1-HUM could not confirm this.

 a. Final truck assembly shop, equipped with two assembly lines.
- 27. Machine shop equipped with many modern machine tools for processing motor vehicle and engine components. Materials were stored in the basements a. Three-story annex housing offices and a kitchen.
- 28. Department for the construction of truck cabs and loading platforms. A wood drying department was attached. In 1949, the truck cabs were made of metal and wood. The construction of all metal cabs was scheduled but the necessary equipment was not yet available. The completed bodies were moved on a conveyor belt (a) to the truck assembly shop.
- 29. Spring department, equipped with several presses for processing and assembling springs.
 a. Conveyor belt for the transportation of completed springs to the assembly shop.
- 30. Small transformer station connected with Foundry No.1 and the spring department.

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- 31. Forge, called Provka by Russian workers. The iron was rough-forged and the rods were then straightened.
- 32. Small transformer station, supplying the forge and other sections of the plant.
- 33. Die department in which dies for the forges and pressing shops were processed.
- 34. Hardening shop for dies, equipped with several oil-fired annealing furnaces and oil baths.
- 35. Storage dump for pig iron, equipped with German-made 10-ton crane.
- 36. Drop forge where all kinds of motor vehicle components, such as axles, crankshafts, and fittings were processed. There was also a hardening shop and a grinding shop.
- 37. Punching shop, equipped with several punches and presses.

38 and

- 39. Forge for extremely heavy forgings. The departments were equipped with especially heavy hamners with compressors.
- 10. Hess hall.
- hl. Electric department and gavage for maintenance and parking of the electric trucks used in the plant.
- 42. Marchouse for motor vehicle component parts supplied from ou side plants, including rims and storage batteries.
- 143. Foundry Mo. 2. Hear axles were east in this foundry. Also housings for universal joints and clutches and similar items were produced.
 - a. Furnace shop with coke-fired ovens and three electric smelting furnaces.
 - b. Grinding shop and hardening shop.
 - c. Administration buildin; of the foundry and mess hall.
- Щь. Scrap Gump.
- 15. Two storage sheds including one for the storage of finished castings,
- 46. Foundry No. 3 used primarily for the casting of engine blocks, brake drums and piston rings. The waste percentage was particularly high.
- 17. Stora e sheds and loading ramp for the shipment of completed motor vehicles.
- 18. Carpent y shop for plant requirements.
- 19. Wooden fence.
- 50. Plant streets. The street passing through the center of the plant was unusually wide and was bordered by strips of grass.

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- 51. Industrial and harbor area with locomotive repair shop, box factory, wood dump, storage site for molding sand, and storage site for material dismantled in Wastorn Germany.
- 52. TES station, still being expanded.

 a. Boilerhouse, equipped with h boilers.

 - Turbine shop. bo
 - c. Smokestack, 120 meters high.d. Conveyor belts.

 - e. Coal crusher and elevator.f. Coal bunker.

 - g. Coal dump.
 - ho dater purification installation.
 - i. Transformer station:
- 53. Freight station.

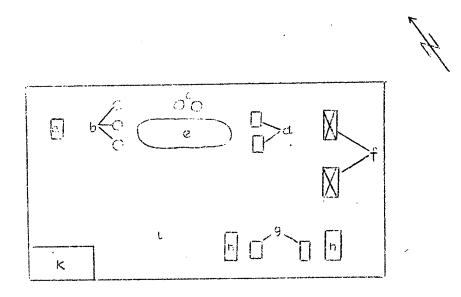
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Layout Eketch of Foundry No. 2 of the ZIE Automobile Plant in Moscow



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Legend:

Eand preheater.

Three coke-fired smelting furnaces. Gear wheels, frame components

and girders for subway tunnels were cast here.
Two electric steel flurnaces, also used for the casting of ball bearings.
There were molds in radial arrangement for the simultaneous casting of loo balls of different sizes ranging from 70 km to 20 mm in diameter.

Two mold tilting machines used in emptying the molds. ď. edges of the castings were removed at the same time. Conveyor belt for molds.
Two 5-ton ceiling cranes.

f.

Molding machines.
Dring furnaces for molds.

1. Coremaking shop.

Storage area for molding sand.

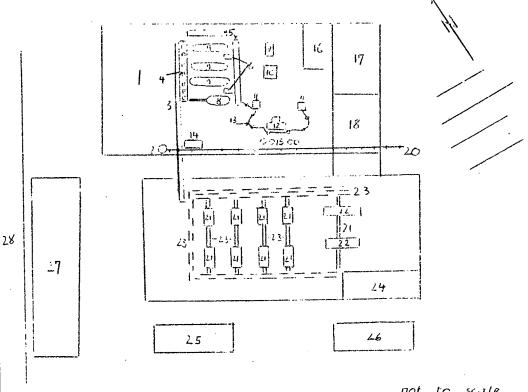
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Layout Eketch of Foundry $No_{\bullet}\,2$ of the ZIE Automobile Flant in Moscow



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Legend: See next page.

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Legend:

- 1. Core making shop.
- 2. Elevator for moldin; sand, about 12 meters high.
- 3. Conveyor belt for moving finished castings to the hardening shop.
- 4. A great number of vibrating grates used in emptying the molds.
- 5. Many large and small molding machines.
- 6. Two platforms.
- 7. Three large conveyor belts for melds.
- 8. A small conveyor belt for molds.
- 9. Transformer,
- 10. New electric furnace under construction.
- 11. Two electric furnaces in operation.
- 12. Transformer.
- 13. Crane runway for ladles to be moved to the conveyor belts for moles.
- Use Office of the foremane
- 15. Four coke-fired smelting furnaces. Two of the furnaces remained in operation while the other two furnaces were being cleaned and charged. Part of the liquid steel in the electric furnaces was melt d with unidentified ingredients before being cast.
- 16. Department for the preparation of molding sand,
- 17. Storage space for molding sand.
- 16. Room used to store lime, ore and scrap.
- 19. Scrap dump outside the workshop.
- 20. Failroad track.
- 21. Wight small annealing furnaces.
- 22. Two large annealing furnaces.
- 23. Track installation used to transport materials to and from the furnaces.
- 24. Frinding shop equipped with several grinding machines, also used as storage room.
- 25. Jarehouse.
- 26. Marehouse for finished castin s.
- 27. Office building and mess hall.
- 28. Main street of the plant.

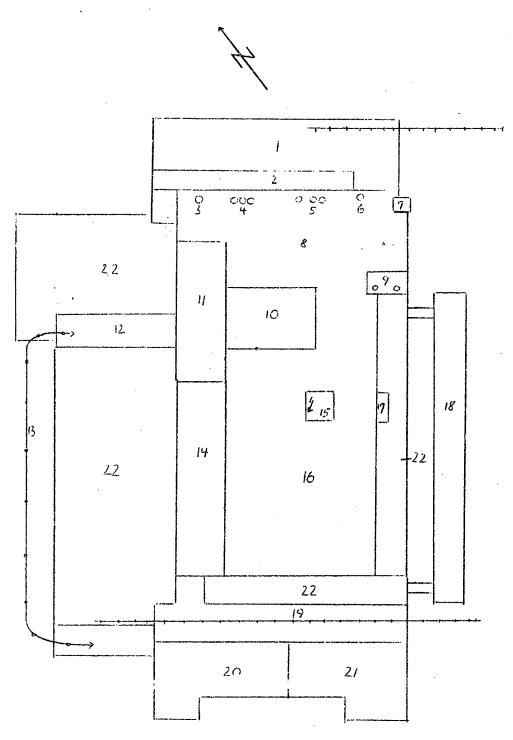
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Layout Eketch of Foundry No. 3 of the ZIE Automobile Plant in Moscow



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Legend:

- 1. Storage room for coke and pig iron.
- 2. Charging installation.
- 3. Coke-fired smelting furnace, under construction in the summer of 1949.
- 4. Three coke-fired smelting furnaces, in operation.
- 5. Three coke-fired smelting furnaces, not in operation in 1949.
- 6. Electric steel furnace, in operation.
- 7. Tower, use was unknown.
- 8. Foundry shop, equipped with two conveyor belts for molds, several small and six large molding machines.
- 9. Two small American-made electric steel furnaces used in casting piston rings,
- 10, Molding shop, equipped with conveyor belts for the finished molds,
- 11. Mechanical repair shop.
- 12. Conveyor belt used to transport finished castings to the cleaning shop.
- 13. Suspended conveyor belt outside the workshop building.
- 14. Room still vacant in August 1949.
- 15. Transformer.
- 16. Core making shop.
- 17. Transformer.
- 18. Three-story building housing administrative offices and laboratories.
- 19. Storage room for molding sand.
- 20. Shop for cleaning castings.
- 21, Grinding shop.
- 22. Unidentified rooms.

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